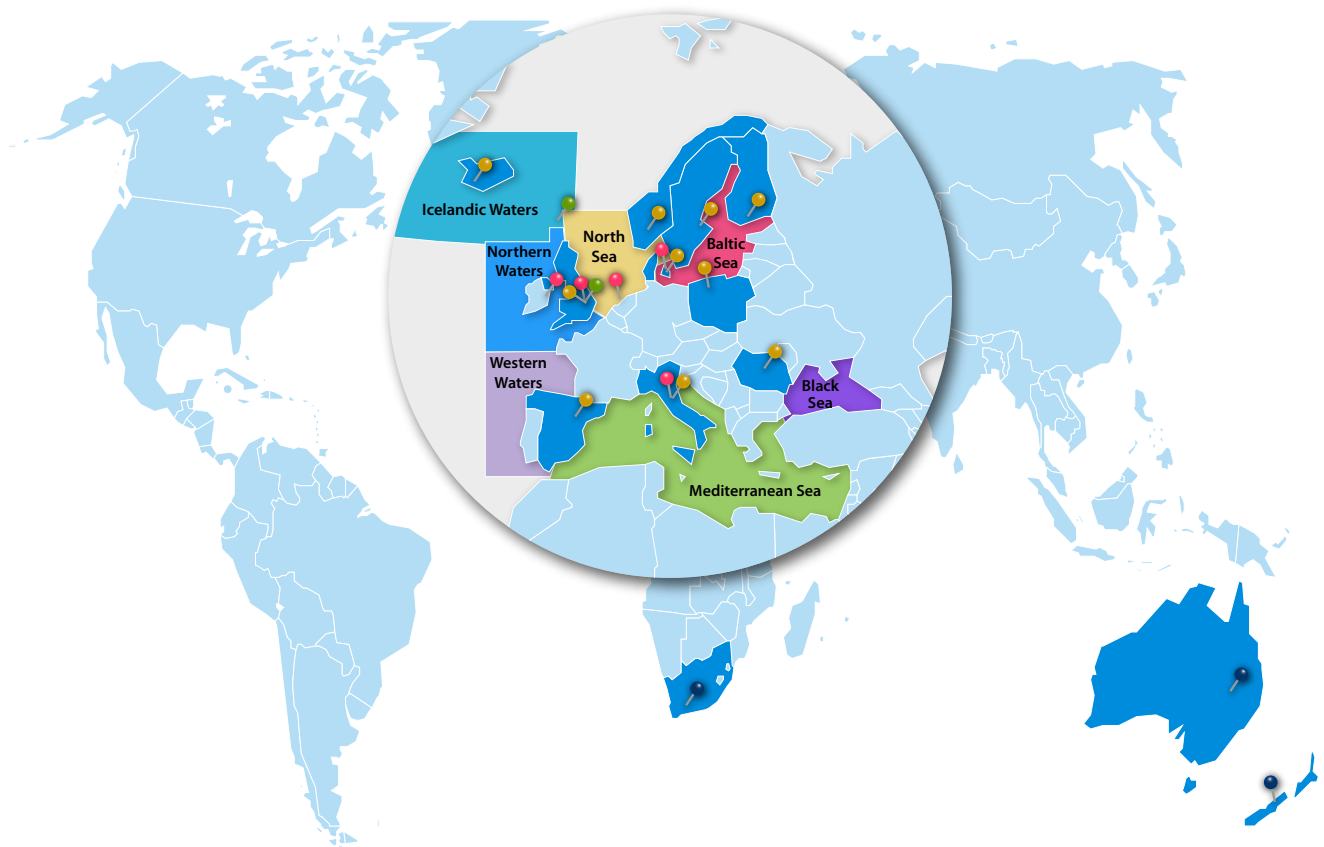


## Roadmap for exploitation of MareFrame outputs within ICES



# MareFrame on-going inputs for ICES



## SINGLE SPECIES

West of Scotland Biomass-based indicators and Trophic level based indicators

Baltic Pressure descriptor

North Sea Pressure descriptor

South Western Waters Cetaceans in WGMME

South Western Waters Pressure descriptor Anchovy

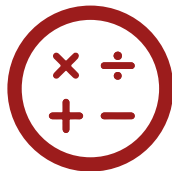
**WGBIE** Working Group on Bay of Biscay and Iberian Waters Ecoregion

**WGDEEP** Working group on biology and assessment of deep-sea fisheries resources

**WGHANSA** Working Group on Southern Horse Mackerel, Anchovy and Sardine

**WGMIXFISH** Working Group on Mixed Fisheries Advice

## GES DESCRIPTORS



## MODEL ADVANCES

**Gadget** Working document: "A GADGET Multi-species models for cetacean and hake interactions in the Iberian Peninsula"

**Atlantis, Ewe** Icelandic continental shelf-area Multi-species presentation

**EwE** West of Scotland Multi-species key run

**EwE** Baltic Sea Multi-species key run

**ToR d** Investigate the performance of multi-model ensemble in comparison to single model approach for the Baltic Sea

**Green Model** Presentation: "Green Model for the North Sea"

**WKDEICE** Working Group on DEveloping Integrated AdviCE for Baltic Sea ecosystem-based fisheries management

**WGMME** Working Group on Marine Mammal Ecology

## INTEGRATED ADVICE



ADVICE



SCIENCE



## MareFrame alternatives for ICES



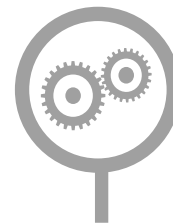
**TRAINING COURSES**  
(e.g. Gadget)



**AD HOC WORKSHOPS 2017**  
(e.g. from WGs findings)



**JOINT SESSIONS**  
**ICES-STEFCF 2018**  
Decision Support  
Tools for the EAFM



**ASC 2017 ICES**  
**ECOSYSTEM APPROACH**  
Meeting Point



## Advice: Single Species

WG	Name	Species	When	What
WGBIE	Working Group on Bay of Biscay and Iberian Waters Ecoregion	Hake	3-10 May 2017	Working document: "Hake natural mortality estimation from GADGET multispecies model"
WGDEEP	Working group on biology and assessment of deep-sea fisheries resources	Tusk & Ling	24 April-01 May 2017	Single Species Management Plans for Tusk and Ling in Icelandic Waters
WGHANSA	Working Group on Southern Horse Mackerel, Anchovy and Sardine	Anchovy	24-26 June 2017	Presentation: "Modelling anchovy dynamics in the Gulf of Cádiz: environmental forcing and economic projections"
WGMIXFISH	Working Group on Mixed Fisheries Advice	Demersal & Pelagic	22-26 May 2017	Presentation: "Green model for the North Sea"



## Advice: GES Descriptors

Sea basin/area	Descriptor/indicator	Descriptor
West of Scotland	Biomass-based indicators and Trophic level based indicators	1,3,4
Baltic	Pressure descriptor	3.1
North Sea	Pressure descriptor	3.1
South Western Waters	Cetaceans in WGMME	1,3,4
South Western Waters	Pressure descriptor Anchovy	3



## Science: Model Advances WGSAM Working Group on Multispecies Assessment Methods

Model	Date	What
Gadget	TBC 16-20 Oct 2017	Working document: "A GADGET multispecies models for cetacean and hake interactions in the Iberian Peninsula"
Atlantis, Ewe	TBC 16-20 Oct 2017	Icelandic continental shelf-area multi-species key run
EwE	TBC 16-20 Oct 2017	West of Scotland Multi-species key run
EwE	TBC 16-20 Oct 2017	Baltic Sea Multi-species key run (update from the one submitted in 2016, available here*)
ToR d	TBC 16-20 Oct 2017	Investigate the performance of multi-model ensemble in comparison to single model approach for the Baltic Sea
Green Model	TBC 16-20 Oct 2017	Presentation: "Green Model for the North Sea"

\*<http://www.ices.dk/community/groups/Pages/WGSAM.aspx>



## Science: Integrated Advice

<b>WKDEICE</b>	Working Group on DEveloping Integrated AdvICE for Baltic Sea ecosystem-based fisheries management	Presentation of the MareFrame Decision Support Tool
<b>WGMME</b>	Working Group on Marine Mammal Ecology	Co-chair (B. Santos). Progress in analysis of model inputs (natural mortality, survey time series, diet, etc), cetacean model development, identification of GES indicators, etc have been presented, mainly through contribution to Reports



HAFRANNSÓKNASTOFNUN



Stockholm University



Shuttle Thread



NRC (Europe) Ltd  
FUNDING OUR SCIENCE HABIT



NORTH WESTERN  
WATERS



# MareFrame

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